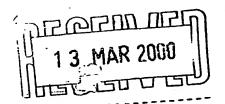
PATENT COOPERATION TREA

From the INTERNATIONAL BUREAU

FCI	100
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 04 September 2000 (04.09.00)	in its capacity as elected Office
International application No. PCT/GB00/00235	Applicant's or agent's file reference HCM/C84.01/Q
International filing date (day/month/year) 28 January 2000 (28.01.00)	Priority date (day/month/year) 02 February 1999 (02.02.99)
Applicant NESS, Jeremy, Nicholas et al	
The designated Office is hereby notified of its election ma in the demand filed with the International Prelimina 09 August 20	ry Examining Authority on:
in a notice effecting later election filed with the Inte	
2. The election X was was not	
made before the expiration of 19 months from the priority Rule 32.2(b).	date or, where Rule 32 applies, within the time limit under
	<u>. </u>
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer S. Mafla
Facsimile No.: (41-22) 740.14.35 Telephone No.: (41-22) 338.83.38	

Form PCT/IB/331 (July 1992)





From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To:

KEITH W NASH & CO. 90-92 Regent Street Cambridge CB2 1DP ROYAUME-UNI

Date of mailing (day/month/year) 02 March 2000 (02.03.00)	
Applicant's or agent's file reference HCM/C84.01/Q	IMPORTANT NOTIFICATION
International application No. PCT/GB00/00235	International filing date (day/month/year) 28 January 2000 (28.01.00)
nternational publication date (day/month/year) Not yet published	Priority date (day/month/year) 02 February 1999 (02.02.99)

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the
 International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise
 indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority
 document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
02 Febr 1999 (02.02.99)	9902225.3	GB	16 Febr 2000 (16.02.00)
16 Marc 1999 (16.03.99)	9905868.7	GB	16 Febr 2000 (16.02.00)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland **Authorized officer**

Marc Salzman

0

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's HCM/C84	or agent's file reference 4.01/Q	FOR FURTHER ACTION		ation of Transmittal of International Examination Report (Form PCT/IPEA/416)	
Internationa	d application No.	International filing date (day/month	vyear)	Priority date (day/month/year)	
PCT/GB0	••	28/01/2000		02/02/1999	
Internationa C11D3/5	d Patent Classification (IPC) or na	tional classification and IPC			
Applicant	TERMATIONAL D.V. A.C.	•			
QUESTI	NTERNATIONAL B.V. et a	- 			
	nternational preliminary exam transmitted to the applicant a		d by this Inte	ernational Preliminary Examining Authority	
2. This F	REPORT consists of a total of	6 sheets, including this cover si	heet.		
b (s	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of 2 sheets.				
ı	eport contains indications rela	ating to the following items:			
	☐ Priority ☐ Non-establishment of o	ppinion with regard to novelty, inv	entive step	and industrial applicability	
ill IV	☐ Lack of unity of invention		Giuve otep	and muoniai approachis	
v	☑ Reasoned statement up		novelty, inve	entive step or industrial applicability;	
VI	☑ Certain documents cite		-X		
VII	☐ Certain defects in the in	nternational application			
VIII	☐ Certain observations or	n the international application			
Date of sub	mission of the demand	Date of	completion of	this report	
09/08/200	00	21.05.20	001		
	nailing address of the international examining authority:	J Authoriz	ed officer	of the same of the	
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			1, H		

Telephone No. +49 89 2399 8589

Fax: +49 89 2399 - 4465



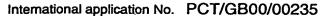
INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/00235

I.	Basis	of	the	rep	ort

1.	the and	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:					
	1-2	0	as originally filed				
	Cla	ims, No.:					
	1-1	3	as received on	07/03/2001	with letter of	05/03/2001	
2.	With lang	h regard to the lang guage in which the i	juage, all the elements international application	marked above were a was filed, unless oth	vailable or fumish erwise indicated u	ned to this Authority in the under this item.	
	The	ese elements were a	available or furnished to	this Authority in the f	ollowing language	e: , which is:	
		the language of a	translation furnished for	the purposes of the i	nternational searc	ch (under Rule 23.1(b)).	
		the language of pu	iblication of the internat	ional application (und	er Rule 48.3(b)).		
		the language of a 55.2 and/or 55.3).	translation furnished for	the purposes of inter	national prelimina	ary examination (under Rule	
3.	Wit	h regard to any nuc rnational preliminar	eleotide and/or amino a y examination was carr	acid sequence disclo ied out on the basis o	sed in the interna f the sequence lis	tional application, the sting:	
		contained in the in	temational application i	n written form.			
		filed together with	the international applica	ation in computer reac	dable form.		
_		furnished subsequ	ently to this Authority in	written form.			
		-	ently to this Authority in				
		the international a	pplication as filed has b	een furnished.		go beyond the disclosure in	
		The statement that listing has been fu		ed in computer reada	ble form is identic	al to the written sequence	
4.	The	amendments have	e resulted in the cancella	ation of:			
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:			• •	
* 5.		This report has be considered to go t	en established as if (so beyond the disclosure a	me of) the amendmers filed (Rule 70.2(c)):	nts had not been r	made, since they have been	





(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

: Claims 1-13

No:

Claims

Inventive step (IS)

Yes:

Claims 1-13

No: Claims

Industrial applicability (IA)

Yes:

Claims 1-13

No: Claims

2. Citations and explanations see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet



EXAMINATION REPORT - SEPARATE SHEET

ITEM V

The following documents cited in the international search report are considered to be relevant with respect to the subject-matter of the present application;

D1: GB-A-1390503 (UNILEVER LTD)

D2: EP-A-0202819 (WARNER LAMBERT CO)

Novelty, Article 33(2) PCT

D1 discloses liquid detergent compositions comprising greater than 5% by weight of a surfactant and an encapsulate comprising an active material and an anionic gum. The active material is present in an amount of greater than 10% by weight or is a fragrance present in an amount of greater than 0.5% by weight. Furthermore, the anionic gum may be cross-linked and, preferably, forms a wall of polymer gel around the core material.

D1, however, does not disclose an encapsulate including active material in a hydrated cross-linked anionic gum matrix.

D2 relates to a delivery system consisting of encapsulates comprising a crosslinked alginate or carrageenate matrix entrapping an active component. D2, however, does neither disclose the use of such delivery systems in liquid detergent compositions comprising surfactants nor that the anionic gum matrix is hydrated.

Independent claims 1, 10 and 11 of the present application are, thus, new with respect to D1 and D2.

Dependent claims 2-9, 12 and 13 disclose preferred embodiments of the claims they refer to. These claims, thus, also meet the requirements of the PCT in respect of novelty.

EXAMINATION REPORT - SEPARATE SHEET

Inventive step, Article 33(3) PCT

The present application and D1 address the same problem.

The object is to provide liquid detergent compositions comprising surfactants and an encapsulate containing an active material, which encapsulate is stable on storage yet dissolves on the composition, thereby releasing the active material.

D1 solves this problem by providing an liquid aqueous medium containing an appropriate quantity of electrolyte which stabilises the capsules in this medium before dilution. On dilution of the composition with water the change in ionic strength of the liquid environment of the capsules enables the active material in the capsules to dissolve.

The present application solves the problem by using an encapsulate which comprises a hydrated cross-linked anionic gum matrix. Such encapsulates are stable in water without the presence of salt and dissolve upon dilution due to the action of diluted surfactants.

This mechanism is different to that disclosed in D1 and, therefore, not derivable from this document.

Although D2 discloses cross-linked alginate or carrageenate matrix based encapsulates as delivery systems, there is no hint in D2 whether these encapsulates are compatible with e.g. surfactants, and, thus, could be incorporated in liquid detergent compositions.

Independent claims 1, 10 and 11 of the present application are, thus, involve an inventive step with respect to D1 and D2.

Claims 2-9, 13 and 14 are dependent on claim 1, 10 and 11 and as such also meet the requirements of the PCT with respect to inventive step.



INTERNATIONAL PRELIMINARY International application No. PCT/GB00/00235 **EXAMINATION REPORT - SEPARATE SHEET**

ITEM VI

The following document is considered to become relevant in the regional examination proceedings:

Pupl. No.:

WO-A-99/24159

Applic. No.:

PCT/GB 98/03345

Priority date:

10.11.1997

Filing date:

10.11.1998

Puplic. date:

20.05.1999

ITEM VIII

The wording of the description and the amended claims is not consistent.

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CLAIMS

- A liquid detergent composition comprising at least 5% by weight of surfactant and an encapsulate comprising greater than 10% by weight of the encapsulate of active material, in a hydrated crosslinked anionic gum matrix.
 - 2. A detergent composition according to claim 1, wherein the surfactant is present at a concentration in the range from 5 to 50% by weight.
 - 3. A detergent composition according to claim 2, wherein the surfactant is present at a concentration in the range from 10 to 30% by weight.
- A detergent composition according to any one of the preceding claims, wherein the surfactant is
 selected from the group consisting of anionic, nonionic, amphoteric and zwitterionic surfactants and mixtures thereof.
 - 5. A detergent composition according to any one of the preceding claims, wherein the the active material comprises a fragrance.
 - 6. A detergent composition according to any one of the preceding claims, wherein the active material is present in an amount up to 60%, preferably in the range from 20 to 40%, and particularly 25 to 30% by weight of the encapsulate.
- 7. A detergent composition according to any one of the preceding claims, wherein the anionic gum is present in an amount up to 5%, preferably up to 1% by weight of the encapsulate.
 - 8. A detergent composition according to any one of the preceding claims, wherein the anionic gum is alginate, carageenan, gellan gum, carboxymethyl cellulose and/or xanthan gum.
 - 9. A detergent composition according to claim 8, wherein the anionic gum is alginate.
 - 10. A liquid detergent composition comprising at least 5% by weight of surfactant and an encapsulate comprising greater than 0.5% by weight of the encapsulate of fragrance, in a hydrated cross-linked anionic gum matrix.



AMENDED SHEET





- 11. A laundry liquid comprising at least 5% by weight of surfactant and an encapsulate comprising active material in a hydrated cross-linked anionic gum matrix.
- 12. A laundry liquid according to claim 11, wherein the liquid comprises in the range from 5 to 50% by weight of anionic surfactant.
 - 13. A laundry liquid according to claims 11 or 12, wherein the liquid additionally comprises in the range from 5 to 80% by weight of builder.

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference HCM/C84.01/Q		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/GB 00/00235	28/01/2000	02/02/1999		
Applicant QUEST INTERNATIONAL B.V.	et al.			
This International Search Report has bee according to Article 18. A copy is being tr	•	hority and is transmitted to the applicant		
·	a copy of each prior art document cited in this	report.		
Basis of the report				
	international search was carried out on the ba less otherwise indicated under this item.	sis of the international application in the		
the international search v Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	the international application furnished to this		
was carried out on the basis of th	e sequence listing:	nternational application, the international search		
	onal application in written form. ernational application in computer readable for	m		
	o this Authority in written form.			
the statement that the su	o this Authority in computer readble form. bsequently furnished written sequence listing of	does not go beyond the disclosure in the		
	as filed has been furnished. ormation recorded in computer readable form i	is identical to the written sequence listing has been		
2. Certain claims were fou	ind unsearchable (See Box I).			
3. Unity of Invention is lac	king (see Box II).			
	* .			
4. With regard to the title,				
the text is approved as su	ubmitted by the applicant.			
the text has been establis	shed by this Authority to read as follows:			
5. With regard to the abstract,				
	shed, according to Rule 38.2(b), by this Author			
	e date of mailing of this international search re	port, submit comments to this Authority.		
6. The figure of the drawings to be pub				
as suggested by the appl		None of the figures.		
because the applicant fail	•			
because this figure better characterizes the invention.				

INTERNATIONAL SEARCH REPORT International Application No GB 00/00235 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C11D3/50 C11D3/22 C11D17/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C11D A61K IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.

	X	✓ GB 1 390 503 A (UNILEVER LTD)	1-14
		√ 16 April 1975 (1975-04-16)	-
		cited in the application	
		claims	
		examples	
		page 2, line 81 - line 88	
		page 3, line 6 - line 15	
		/page 3, line 53 - line 79	
		/ page 3, line 111 -page 4, line 4	
- 1			
	Α	√ EP 0 202 819 A (WARNER LAMBERT CO)	1,5-12
. 1	••	26 November 1986 (1986-11-26)	1,0 12
		claims 1-7,11-22	i
- 1		page 3, line 20 -page 4, line 14	
		page 10, line 29 - line 33	
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	X	Further documents are listed in the continuation of box C. Patent family members are listed	in annex.

"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
later than the priority date claimed Date of the actual completion of the international search	*&* document member of the same patent family
24 May 2000	Date of mailing of the international search report 09/06/2000
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Neys, P

INTERNATIONAL SEARCH REPORT



C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. P,A 1,5-12 WO 99 24159 A (QUEST INT.) 20 May 1999 (1999-05-20) cited in the application the whole document

INTERNATIONAL SEARCH REPORT

ion on patent family members

20-05-1999

B 00/00235 Publication Patent family **Publication** Patent document cited in search report date member(s) date GB 1390503 Α 16-04-1975 BE 781499 A 02-10-1972 CA 968248 A 27-05-1975 DE 2215441 A 12-10-1972 FR 2132216 A 17-11-1972 IT · 954565 B 15-09-1973 NL 7204416 A 03-10-1972 ZA 7202050 A 28-11-1973 EP 0202819 26-11-1986 US 4695463 A 22-09-1987 Α 571372 B 14-04-1988 ΑU AU 5765086 A 27-11-1986 CA 1264034 A 27-12-1989 DK 243286 A 25-11-1986 01-08-1987 ES 555288 D ES 8801766 A 01-05-1988 862095 A 25-11-1986 FΙ 16-09-1986 861350 A GR 31-01-1987 JP 62023434 A NO 862059 A 25-11-1986 25-11-1986 NO 912643 A 26-11-1986 8602641 A ZA

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31-05-1999

International Application No

WO 9924159

Α



REQUEST

For recoving Office use only				
International Application No.				
International Filing Date				
	_			
Name of receiving Office and "PCT International Application"				
Applicant's or agent's file reference	_			

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty. (if desired) (12 characters maximum) HCM/C84.01/Q Box No. I TITLE OF INVENTION Detergent Composition Box No. II **APPLICANT** Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Bax is the applicant's State (that is, country) of residence if no State This person is also inventor. of residence is indicated below.) Telephone No. Quest International B.V. Huizerstraatweg 28 Facsimile No. 1411 GP Naarden The Netherlands Teleprinter No. State (that is, country) of nationality: State (that is, country) of residence: NL the States indicated in the Supplemental Box This person is applicant all designated the United States all designated States except States the United States of America of America only for the purposes of: Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only NESS, Jeremy Nicholas applicant and inventor 25 High Snoad Wood, Challock inventor only (If this check-box Ashford, Kent. is marked, do not fill in below.) TN25 4DQ, United Kingdom State (that is, country) of nationality: State (that is, country) of residence: GB GB the States indicated in the Supplemental Box This person is applicant the United States all designated States except the United States of America all designated of America only for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE Box No. IV The person identified below is hereby/has been appointed to act on behalf agent common representative of the applicant(s) before the competent International Authorities as: Telephone No. Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.) (01223) 355477 Keith W Nash & Co Facsimile No. 90-92 Regent Street (01223) 324353 Cambridge CB2 1DP Teleprinter No. United Kingdom Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

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Sheet	No.	_		2.	

Continuation of Box No. III FUR. ER APPLICANT(S) AND/OR (FURTHER) IN LINTOR(S)				
If none of the following sub-boxes is used, the	is sheet should not be included in the request.			
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only				
GOODALL, Marcus James	applicant and inventor			
2 Meadow Cottages, Nackington Road Canterbury, Kent CT4 7AB, United Kingdom	inventor only (If this check-box is marked, do not fill in below.)			
State (that is, country) of nationality:	State (that is, country) of residence:			
This person is applicant all designated for the purposes of:	States except the United States of America only the Supplemental Box			
Name and address: (Family name followed by given name; for a leasignation. The address must include postal code and name of coun address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)			
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This person is applicant for the purposes of: all designated the United States all designated the United States	States except the United States the States indicated in the supplemental Box			
Further applicants and/or (further) inventors are indicated on another continuation sheet.				

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	The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked): Regional Patent											
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	KR	Republic of Korea	be	come	party to the PCT after issuance of this sheet:							
		Kazakhstan										
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Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any												
dos	designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (Including fees) must reach the receiving Office within the 15-month time limit.)											

Sheet No. ..4....

Box No. VI PRIORITY C	LAIM	Further priority classe e indicated in the Supplemental Box.							
← Filing date	Number		Where earlier applicat	ion is:					
of earlier application (day/month/year)	of earlier application	national application: country	regional application:* regional Office	international application: receiving Office					
item (1) 02.02.1999									
2nd February 1999	9902225.3	GB							
item (2) 16.03.1999		·							
16 March 1999 item (3)	9905868.7	GB							
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Box No. VIII CHECK LIST									
This international application co		al application is accompanulation sheet	ied by the item(s) marke	ed below:					
request : 4	-	signed power of attorney							
description (excluding sequence listing part) : 19		general power of attorney;	reference number, if any	<i>r</i> :					
claims : 2 4. statement explaining lack of signature									
abstract : 1 5. priority document(s) identified in Box No. VI as item(s):									
drawings : _ 6. \(\precedent \text{ translation of international application into (language):} \)									
sequence listing part 7. separate indications concerning deposited microorganism or other biological material									
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Date of actual receipt of the international application:	•			2. Drawings:					
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:									
Date of timely receipt of the corrections under PCT Article			·	not received:					
5. International Searching Authorist two or more are competen	ority 1): ISA/	6. Transmitta until search	l of search copy delayed n fee is paid.						
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applican	t's or ag	ent's file reference	T		National Communication				
HCM/C	·		FOR FURTHER AC	TION	e Notification of Transmi eliminary Examination R	eport (Form PCT/IPEA/416)			
Internation	onal app	ication No.	International filing date (day/month/yea	Priority date (day/month/year)			
PCT/G	B00/00)235	28/01/2000		02/02/1999)			
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Applican	t								
QUES	TINTE	RNATIONAL B.V. et al	l.						
		ational preliminary exami smitted to the applicant a		prepared by	this International Prel	iminary Examining Authority			
2. Thi	s REPC	ORT consists of a total of	6 sheets, including this	cover shee					
⊠ The	been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
i he	These annexes consist of a total of 2 sheets.								
	ı ⊠ 11 □	Basis of the report Priority							
	_	Non-establishment of o	pinion with regard to no	velty, invent	ve step and industrial	applicability			
IN		Lack of unity of invention	·	,		appaasy			
`	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement								
V	/I 🛛	Certain documents cite	ed						
V		Certain defects in the in	nternational application						
VII	II 🛛	Certain observations or	n the international applic	ation					
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International application No. PCT/GB00/00235

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1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:									
	1-2	0	as originally filed							
	Claims, No.:									
	1-1	3	as received on	07/03/2001	with letter of	05/03/2001				
2.	lang	guage in which the i	uage, all the elements m nternational application v available or furnished to the	vas filed, unless othe	erwise indicated un	der this item.				
		• •		• • • • • • • • • • • • • • • • • • • •	, ,,	examination (under Rule				
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:									
		contained in the in	ternational application in	written form.						
		filed together with the international application in computer readable form.								
		furnished subsequently to this Authority in written form.								
		Ifurnished subsequently to this Authority in computer readable form.								
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.								
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.								
4.	The	amendments have	resulted in the cancellati	on of:						
		the description,	pages:							
		the claims,	Nos.:							
		the drawings,	sheets:							
5.			en established as if (some		its had not been ma	ade, since they have been				



International application No. PCT/GB00/00235

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

: Claims 1-13

No: Claims

Inventive step (IS)

Yes:

Yes:

Claims 1-13

No: Claims

Industrial applicability (IA)

Claims 1-13

No: Claims

- Citations and explanations see separate sheet
- VI. Certain documents cited
- 1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

ITEM V

The following documents cited in the international search report are considered to be relevant with respect to the subject-matter of the present application;

D1: GB-A-1390503 (UNILEVER LTD)

D2: EP-A-0202819 (WARNER LAMBERT CO)

Novelty, Article 33(2) PCT

D1 discloses liquid detergent compositions comprising greater than 5% by weight of a surfactant and an encapsulate comprising an active material and an anionic gum. The active material is present in an amount of greater than 10% by weight or is a fragrance present in an amount of greater than 0.5% by weight. Furthermore, the anionic gum may be cross-linked and, preferably, forms a wall of polymer gel around the core material.

D1, however, does not disclose an encapsulate including active material in a hydrated cross-linked anionic gum matrix.

D2 relates to a delivery system consisting of encapsulates comprising a crosslinked alginate or carrageenate matrix entrapping an active component. D2, however, does neither disclose the use of such delivery systems in liquid detergent compositions comprising surfactants nor that the anionic gum matrix is hydrated.

Independent claims 1, 10 and 11 of the present application are, thus, new with respect to D1 and D2.

Dependent claims 2-9, 12 and 13 disclose preferred embodiments of the claims they refer to. These claims, thus, also meet the requirements of the PCT in respect of novelty.



International application No. PCT/GB00/00235

Inventive step, Article 33(3) PCT

The present application and D1 address the same problem.

The object is to provide liquid detergent compositions comprising surfactants and an encapsulate containing an active material, which encapsulate is stable on storage yet dissolves on the composition, thereby releasing the active material.

D1 solves this problem by providing an liquid aqueous medium containing an appropriate quantity of electrolyte which stabilises the capsules in this medium before dilution. On dilution of the composition with water the change in ionic strength of the liquid environment of the capsules enables the active material in the capsules to dissolve.

The present application solves the problem by using an encapsulate which comprises a hydrated cross-linked anionic gum matrix. Such encapsulates are stable in water without the presence of salt and dissolve upon dilution due to the action of diluted surfactants.

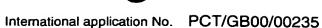
This mechanism is different to that disclosed in D1 and, therefore, not derivable from this document.

Although D2 discloses cross-linked alginate or carrageenate matrix based encapsulates as delivery systems, there is no hint in D2 whether these encapsulates are compatible with e.g. surfactants, and, thus, could be incorporated in liquid detergent compositions.

Independent claims 1, 10 and 11 of the present application are, thus, involve an inventive step with respect to D1 and D2.

Claims 2-9, 13 and 14 are dependent on claim 1, 10 and 11 and as such also meet the requirements of the PCT with respect to inventive step.

INTERNATIONAL PRELIMINARY



EXAMINATION REPORT - SEPARATE SHEET

ITEM VI

The following document is considered to become relevant in the regional examination proceedings:

Pupl. No.:

WO-A-99/24159

Applic. No.:

PCT/GB 98/03345

Priority date: 10.11.1997

Filing date: 10.11.1998

Puplic. date:

20.05.1999

ITEM VIII

The wording of the description and the amended claims is not consistent.

CLAIMS

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- A liquid detergent composition comprising greater than 5% by weight of surfactant and an encapsulate comprising greater than 10% by weight of the encapsulate of active material, and a cross-linked anionic gum.
 - 2. A detergent composition according to claim 1, wherein the surfactant is present at a concentration in the range from 5 to 50% by weight.
 - 3. A detergent composition according to claim 2, wherein the surfactant is present at a concentration in the range from 10 to 30% by weight.
- A detergent composition according to any one of the preceding claims, wherein the surfactant is
 selected from the group consisting of anionic, nonionic, amphoteric and zwitterionic surfactants and mixtures thereof.
 - 5. A detergent composition according to any one of the preceding claims, wherein the the active material comprises a fragrance.
 - 6. A detergent composition according to any one of the preceding claims, wherein the active material is present in an amount up to 60%, preferably in the range from 10 to 60%, more preferably 20 to 60%, and particularly 25 to 30% by weight of the encapsulate.
- 7. A detergent composition according to any one of the preceding claims, wherein the anionic gum is present in an amount up to 5%, preferably up to 1% by weight of the encapsulate.
 - 8. A detergent composition according to any one of the preceding claims, wherein the anionic gum is alginate, carageenan, gellan gum, carboxymethyl cellulose and/or xanthan gum.
 - 9. A detergent composition according to claim 8, wherein the anionic gum is alginate.
 - A detergent composition according to any one of the preceding claims, wherein the anionic gum is hydrated.

- 11. A liquid detergent composition comprising greater than 5% by weight of surfactant and an encapsulate comprising greater than 0.5% by weight of the encapsulate of fragrance, and an anionic gum.
- 5 12. A laundry liquid comprising greater than 5% by weight of surfactant and an encapsulate comprising active material and an anionic gum.
 - 13. A laundry liquid according to claim 12, wherein the liquid comprises in the range from 5 to 50% by weight of anionic surfactant.
 - 14. A laundry liquid according to claims 12 or 13, wherein the liquid additionally comprises in the range from 5 to 80% by weight of builder.